ORDER NO. SD7909-1622

Service Manual

SL-1200MK2

Turntable System

SL-1200MK2

(XG), (XA), (XGB)
(XAL), (E)

* The model SL-1200MK2 (XG) is available in European only.
* The model SL-1200MK2 (XA) is available in Asia, Latin America, Middle East and Africa only.
* The model SL-1200MK2 (XGB) is available in Belgium only.
* The model SL-1200MK2 (XAL) is available in Australia only.
* The model SL-1200MK2 (E) is available in Scandinavia only.

SPECIFICATIONS/ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ
DISASSEMBLY PROCEDURE/МЕТОДИКА РАЗБОРКИ
PARTS IDENTIFICATIONS/СОСТАВНЫЕ ЧАСТИ ПРОИГРЫВАТЕЛЯ ДИСКОВ
ARM BASE ASSEMBLING PROCEDURE/МЕТОДИКА СБОРКИ ТОНАРМА
ADJUSTMENTS/РЕГУЛИРОВКИ
SCHEMATIC DIAGRAM/ПРИНЦИПИАЛЬНАЯ СХЕМА
REPLACEMENT PARTS LIST (Electrical)/СПИСОК ЗАПАСНЫХ ЧАСТЕЙ (электрические)
BLOCK DIAGRAM/БЛОК-СХЕМА
ADJUSTMENTS (Electrical)/РЕГУЛИРОВКИ (электрические)
REFERENCE VOLTAGE AND WAVEFORM AT EACH IC PIN/НАПРЯЖЕНИЯ И ФОРМЫ СИГНАЛОВ НА ВЫВОДАХ МИКРОСХЕМ
EXPLODED VIEWS/ СБОРОЧНЫЕ ЧЕРТЕЖИ
REPLACEMENT PARTS LIST (Mechanical)/СПИСОК ЗАПАСНЫХ ЧАСТЕЙ (механические)

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

SPECIFICATIONS

(Specifications subject to change without notice. Weight and dimensions shown are approximate.)

General

Power supply:	~110–120/220–240, 50 or 60 Hz
Power consumption:	13.5 W
Dimensions:	45.3 x 16.2 x 36 cm
(W x H x D)	(17-27/32" x 6-19/64" x 14-11/64")
Weight:	12.5 kg (27.6 lb)

Turntable section

Type:	Quartz direct drive Manual turntable
Drive method:	Direct drive
Motor:	Brushless DC motor
Turntable platter:	Aluminum diecast Diameter 33.2 cm (13-5/64") Weight 2 kg (4.4 lb)
Turntable speeds:	33-1/3 rpm and 45 rpm
Starting torque:	1.5 kg.cm (1.3 lb .in)
Build-up characteristics:	0.7 s. from standstill to 33-1/3 rpm
Braking system:	Electronic brake
Wow and flutter:	0.01% WRMS*
	0.025% WRMS (JIS C5521)
	±0.035% peak (IEC 98A Weighted)

* This rating refers to turntable assembly alone, excluding effects of record, cartridge or tonearm, but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.

Rumble:	–56 dB (IEC 98A Unweighted)
	–78 dB (IEC 98A Weighted)

Tonearm section

Type:	Universal
Effective length:	230 mm(9-1/16")
Arm height adjustment range:	0–6 mm
Overhang:	15 mm (19/32")
Effective mass:	12 g (without cartridge)
Offset angle:	22°
Friction:	Less than 7 mg (lateral, vertical)
Tracking error angle:	Within 2°32' (at the outer groove of 30 cm (12") record
Stylus pressure	Within 0°32' (at the inner groove of 30 cm (12") record
adjustment range:	0–2.5 g
Applicable cartridge	
weight range:	6–10 g
	13.5–17.5 g (including headshell)
(with auxiliary weight):	9.5–13 g
	17–20.5 g (including headshell)
(with shell weight)	3.5–6.5 g
	11–14 g (including headshell)
Headshell weight:	7.5 g

Cartridge section

Model No.	EPC-207C
Type:	Moving magnet
Frequency response:	20 Hz to 25 kHz
	20 Hz to 15 kHz ±2 dB
Output voltage:	3 mV at 1 kHz
	5 cm/s. zero to peak lateral velocity
	[8.5 mV at 1 kHz 10 cm/s. zero to peak 45° velocity (DIN 45500)]
Channel separation:	25 dB at 1 kHz
Channel balance:	Within 2 dB at 1 kHz
Compliance (dynamic):	10 x 10^6 cm/dyne at 100Hz
Stylus pressure:	1.75 ±0.25 g (17.5 ±2.5 mN)
Load impedance:	47 kΩ to 100 kΩ
Weight:	5.6 g (cartridge only)
Replacement stylus:	EPS-207FD
	(Elliptical stylus)

■ DISASSEMBLY PROCEDURE

How to remove panel cover

1. Remove head shell and turntable.
2. Secure arm with arm clamp.
3. Remove 5 screws Ⓐ of the panel cover as shown in Fig. 1.

How to remove stater frame coil and F.G detector coil

4. Remove 3 connectors Ⓑ and 2 read wires Ⓒ from power transformer as shown in Fig. 2.
5. Remove 3 screws Ⓓ of the drive circuit board and 3 screws Ⓔ of the stater frame cover as shown in Fig. 2.
6. Disconnect 18 soldered parts Ⓕ of the stater coil and 4 soldered parts Ⓖ of the F.G detector coil as show in Fig. 3.
7. Remove 3 screws Ⓗ of the stater frame ass'y as shown in Fig. 3.

How to remove bottom base ass'y

8. Remove 4 audio insulators. **(Counterclockwise rotation)**
9. Remove 17 screws and spacer Ⓘ as show in Fig. 4.
10. Remove 11 screws Ⓙ as shown in Fig. 4.

How to remove stylus-illuminator lamp

11. Remove 2 screws Ⓚ of the stylus-illuminator lamp ass'y as shown in Fig. 5.
12. Remove 1 screw Ⓛ as shown in Fig. 6.

How to remove neon-illuminator L.E.D.

13. Remove 4 screws Ⓜ as shown in Fig. 5.
14. Remove 1 circlip Ⓝ and switch cam Ⓞ as shown in Fig. 5.
15. Remove strobo-illuminator case.

How to remove tone arm

16. Remove 4 screws Ⓟ of the arm base cover as shown in Fig. 5.
17. Remove 2 screws Ⓠ of the phono cord clamper as shown in Fig. 5.
18. Remove phono cord clamper as shown in Fig. 7.
19. Remove 2 screws Ⓡ of the phono cord p.c.b. as shown in Fig. 8.
20. Remove 2 screws Ⓢ as shown in Fig. 8.
21. Remove 2 screws Ⓣ of the silicon oil dumper as shown in Fig. 8.
22. Remove 3 screws Ⓤ as shown in Fig. 8.
23. Remove 2 screws Ⓧ of the tone arm as shown in Fig. 9.

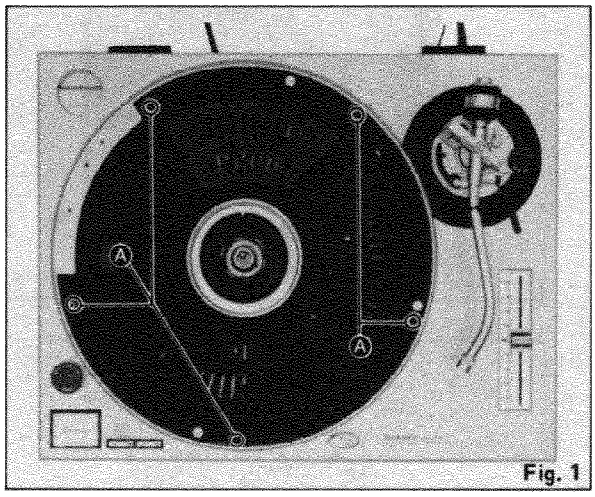


Fig. 1

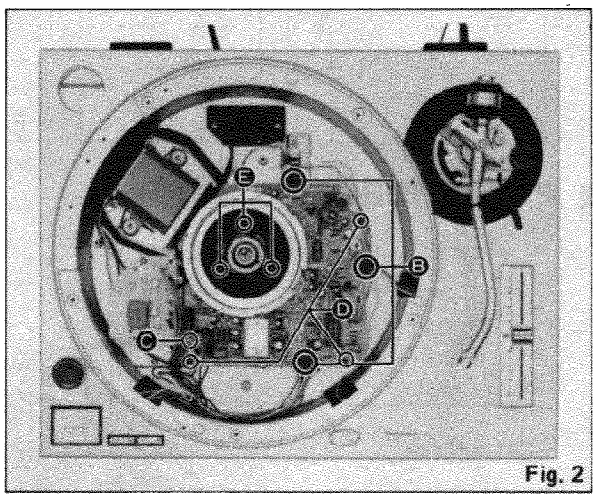


Fig. 2

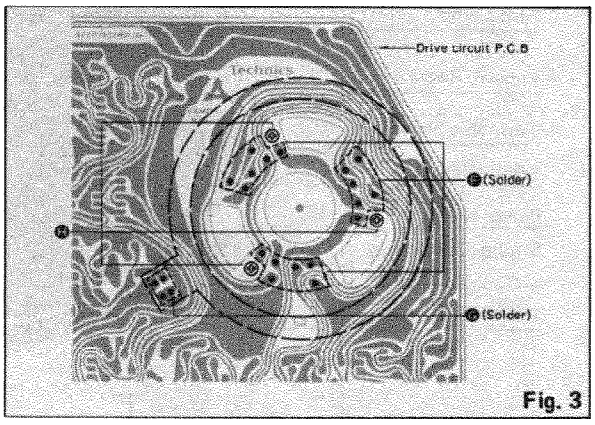


Fig. 3

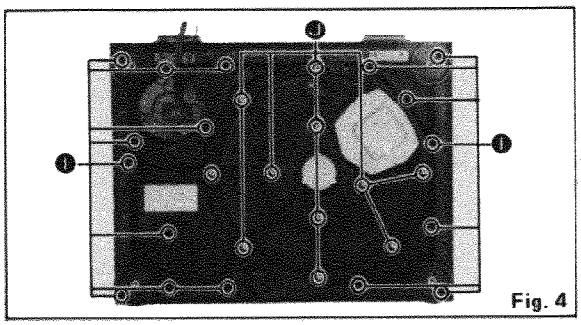


Fig. 4

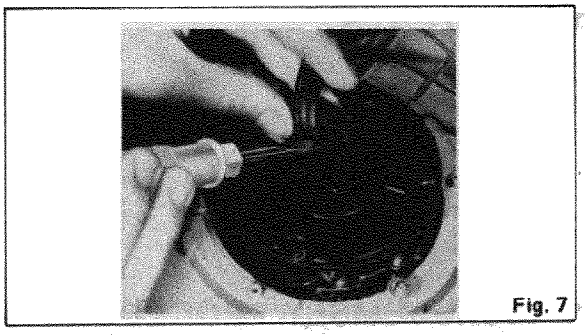


Fig. 7

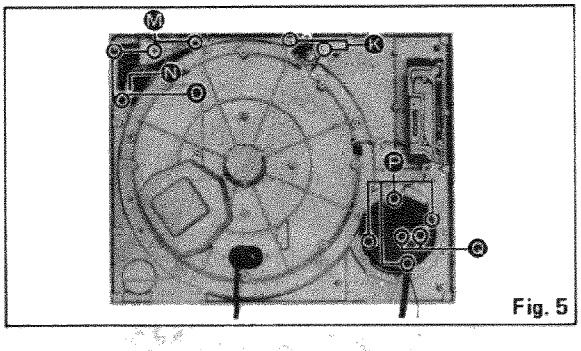


Fig. 5

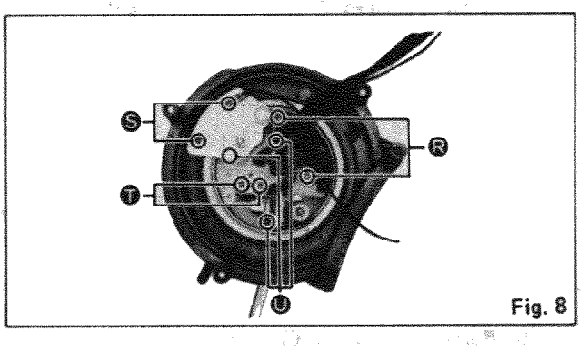


Fig. 8

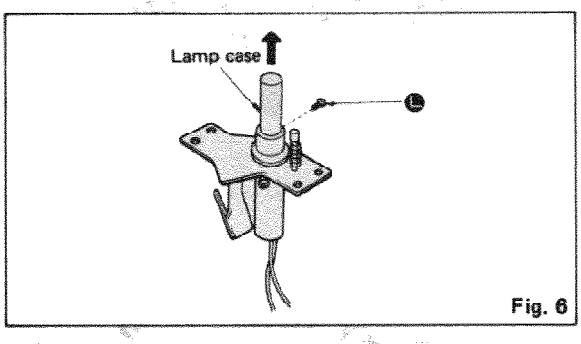


Fig. 6

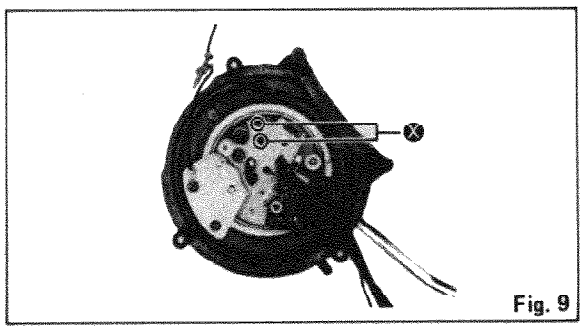
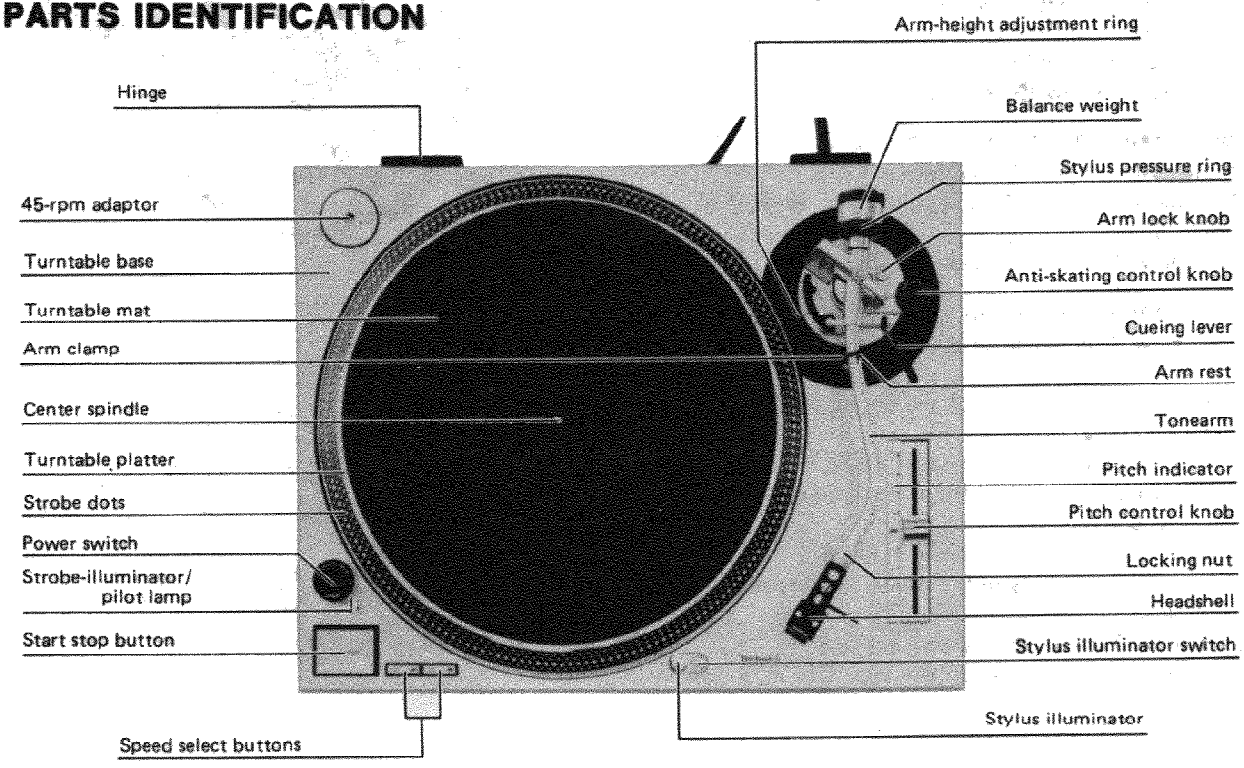


Fig. 9

■ PARTS IDENTIFICATION



■ ARM BASE ASSEMBLING PROCEDURE

1. Attach the control ring to the arm base seat. (The control ring should be roated counterclockwise.)
2. Completely tighten the control ring, and then loosen it 1.5~2.5 turns to set the scale to "3". (See Fig. 11)

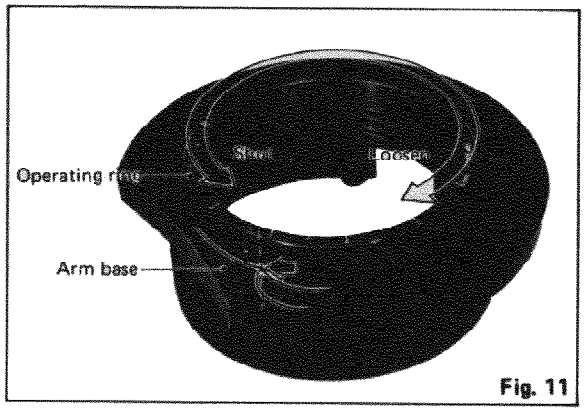


Fig. 11

3. Hold the arm base and set the red line mark on the arm base to the scale near "2", then turn the arm base clockwise. (See Fig. 12)
   Note:
   Take care not to allow deflection of the predetermined positions of the control ring and arm base seat.

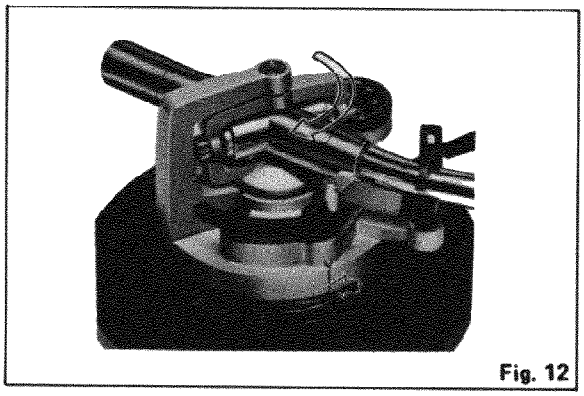


Fig. 12

4. Adjust the arm base so that the red line mark on the arm base is set to the scale "3" of the control ring. Next, secure the positioning base plate with two setscrews. (See Fig. 13)

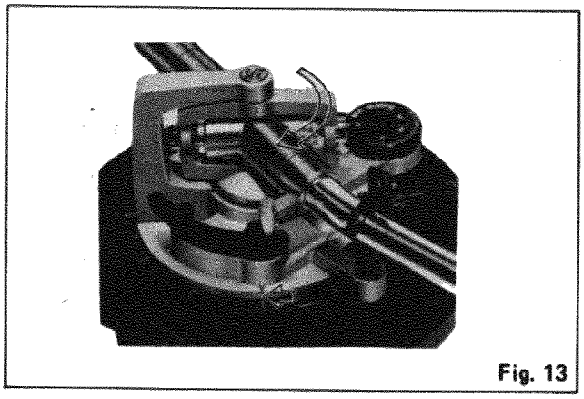


Fig. 13

5. Rotate the control ring and make sure that the arm base shifts within the range of 0~6mm. (See Figs. 14 and 15) If it does not shift within the specified range, the arm base position is deflected. In that case, disassemble the parts and check as specified in step 3.

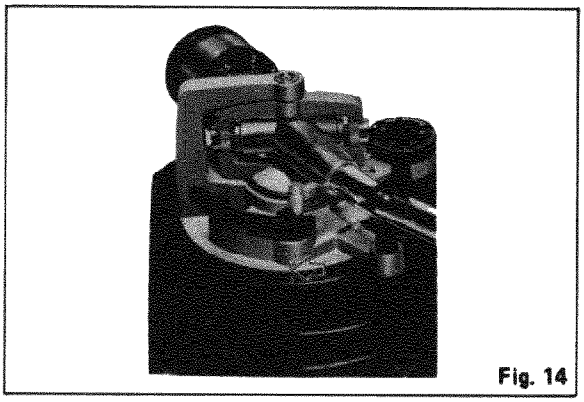


Fig. 14

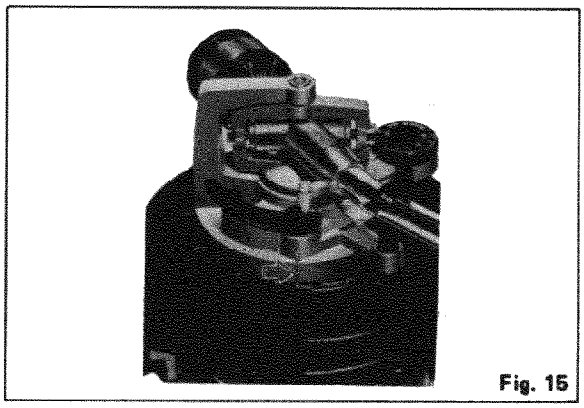


Fig. 15

■ ADJUSTMENT OF CANCELLER SPRING POSITION

If the arm body or PU base plate is replaced, be sure to set the canceller knob to "0.5" and make sure that the canceller spring is in contact with the arm shaft. (See Fig. 16) If the canceller spring is deflected, adjust it as follows:

1. Clamp the arm on the rest.
2. Set the canceller knob to "0.5".
3. Remove the PU base plate, adjust gear Ⓐ so that the canceller spring is in the position of Fig. 16.
4. Mount the PU base plate onto the arm base and check the spring position.

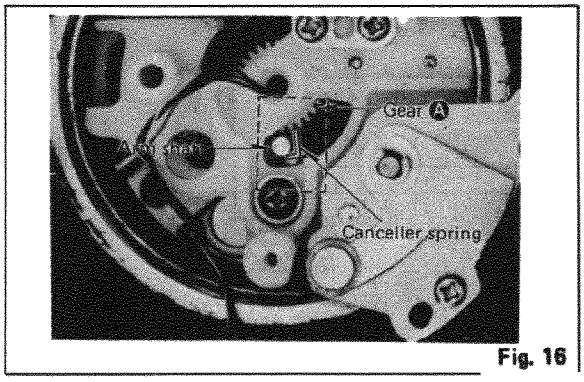


Fig. 16

■ ADJUSTMENTS

Pitch control (fine adjustment of speed) (See Figs. 18 and 19.)

When the pitch control knob is located at the center of the position after turning on the power, the green LED indicator is lit showing the operating condition for the predetermined speed (either 33-1/3 or 45 rpm). The pitch control is variable in a range of about ±8%

Adjustment should be done on the basis of indicator scale. Figures on the indicator show approximate percentages for variable pitch control.

When the strobe dots in 4 stages marked at the peripheral edge of the turntable appear to be stationary, variation of individual pitches is shown. **(See Fig. 19.)**

Note:

The strobe-illumination of this unit employs a strobe-illuminator LED synchronized with the precise quartz frequency.

For fine adjustment of the turntable speed, be sure to effect the adjustment according to the LED illumination.

The LED illumination is not synchronized with fluorescent lamps.

Adjustment of arm-lift height (See Figs. 20 and 21.)

The arm-lift height (distance between the stylus tip and record surface when cueing lever is raised) has been adjusted at the factory before shipping to approximately 8-13mm.

If the clearance becomes too narrow or too wide, turn the adjustment screw clockwise or counterclockwise, while pushing the arm lift down.

Clockwise rotation

—distance between the record and stylus tip is decreased.

Counterclockwise rotation

—distance between the record and stylus tip is increased.

Note:

As the adjusting screw has hexagonal head, be sure to make the adjustment while depressing the arm lift, or the screw will not move freely.

Also be sure that the hexagonal head retracts correctly into the arm lift when the latter is released.

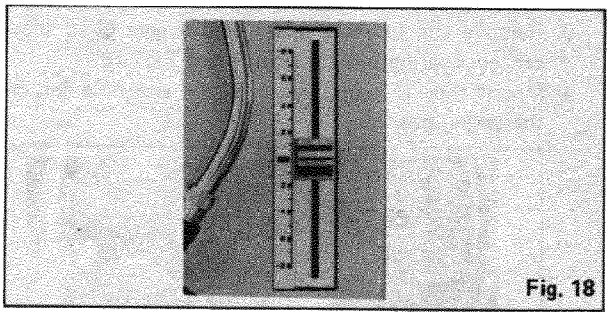


Fig. 18

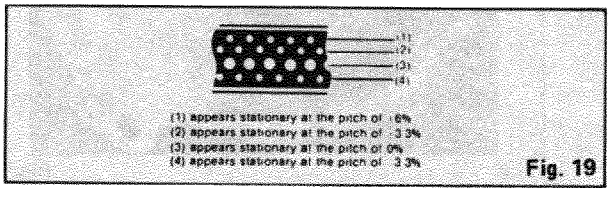

(1)
(2)
(3)
(4)
(1) appears stationary at the pitch of +6%
(2) appears stationary at the pitch of +3.3%
(3) appears stationary at the pitch of 0%
(4) appears stationary at the pitch of -3.3%

Fig. 19

Adjustment of the tonearm height (See Fig. 22.)

The height of the tonearm can be adjusted up to 6 mm, and a scale is provided on the adjust ring in 0.5 mm increments. Be sure to set the proper arm height using the adjust ring scale and referring to the table.

Height of cartridge (mm) (H)	Scale reading on the arm-height adjust ring
15	0
16	1
17	2
18	3
19	4
20	5
21	6

For example, if the cartridge height is 17.5 mm, the arm-height adjust ring should be positioned at the intermediate location between 2 and 3 on the scale. **(See Fig. 22.)**

Caution:

Be sure to lock the tonearm by turning the arm lock knob in the direction indicated by the arrow after finishing the height adjustment for the tonearm.

Lubrication (See Fig. 23.)

Apply 2 or 3 drops of oil once after every 2000 hours of operation.

The time interval is much longer than that for conventional type motors (200-500 hours).

Please purchase original oil. **(Part number is SFWO 010.)**

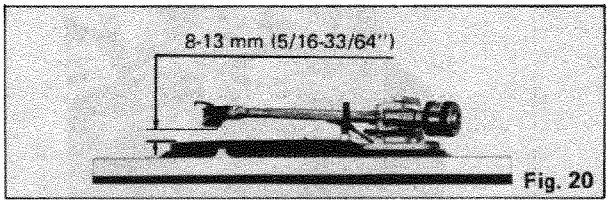


Fig. 20

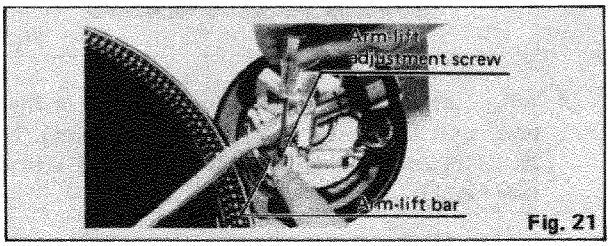


Fig. 21

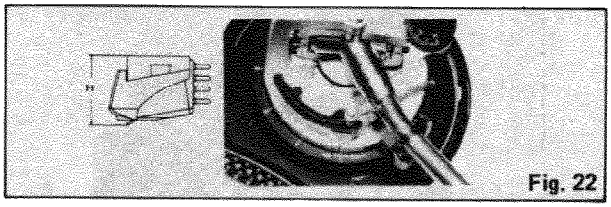


Fig. 22

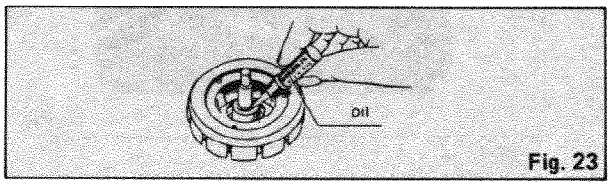
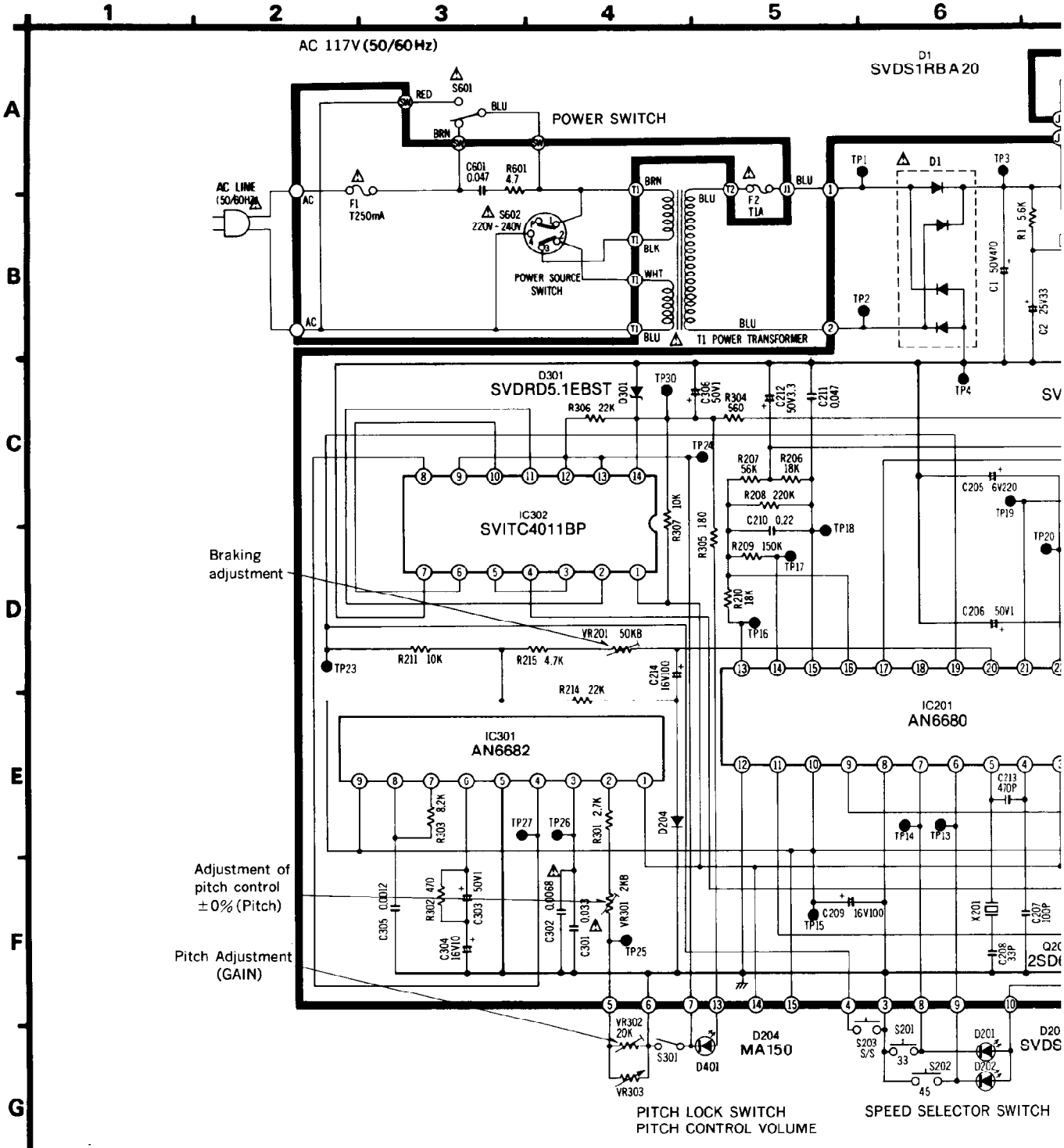


Fig. 23

Schematic Diagram (This schematic diagram may be modified at any time with the develo



■ TERMINAL GUIDE OF TRANSISTOR AND IC

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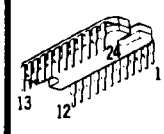
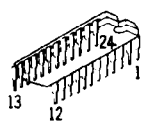
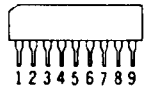
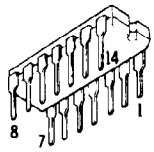
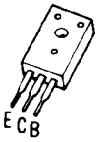
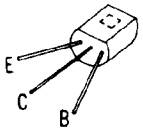
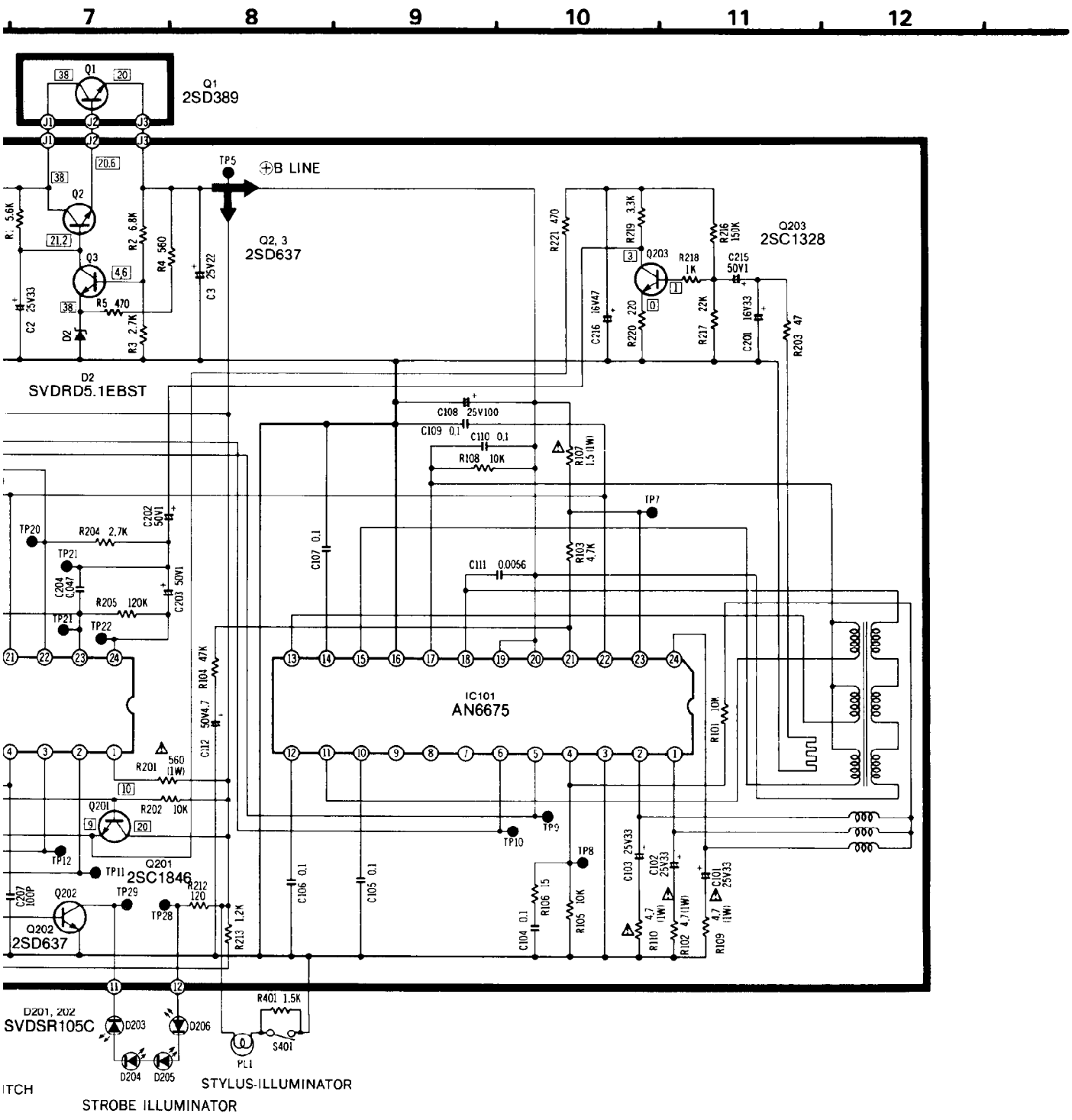
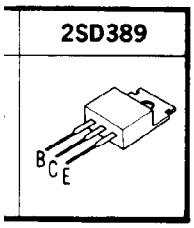
						

evelopment of new technology.)





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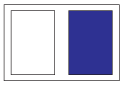
NOTE:

1. **S201:** Speed selector switch (33-1/3 r.p.m.) in "**ON**" position. (push condition)
2. **S202:** Speed selector switch (45 r.p.m.) in "**OFF**" position. (not-push condition)
3. **S203:** Start/Stop switch in "**OFF**" position. (not-push condition)
4. **S301:** Pitch lock switch in "**ON**" position. (center position)
5. **S401:** Stylus-illuminator switch in "**OFF**" position.
6. **S601:** Power switch in "**ON**" position.
7. **S602:** Power source switch in "**220–240V**" position.
8. The drive circuit IC voltage and wave form are not indicated in side the schematic diagram.
9. Indicated voltage valuse are the standard values for the unit measured by DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
10. ⚠ indicates that only parts specified by the manufactuer be used for safety.



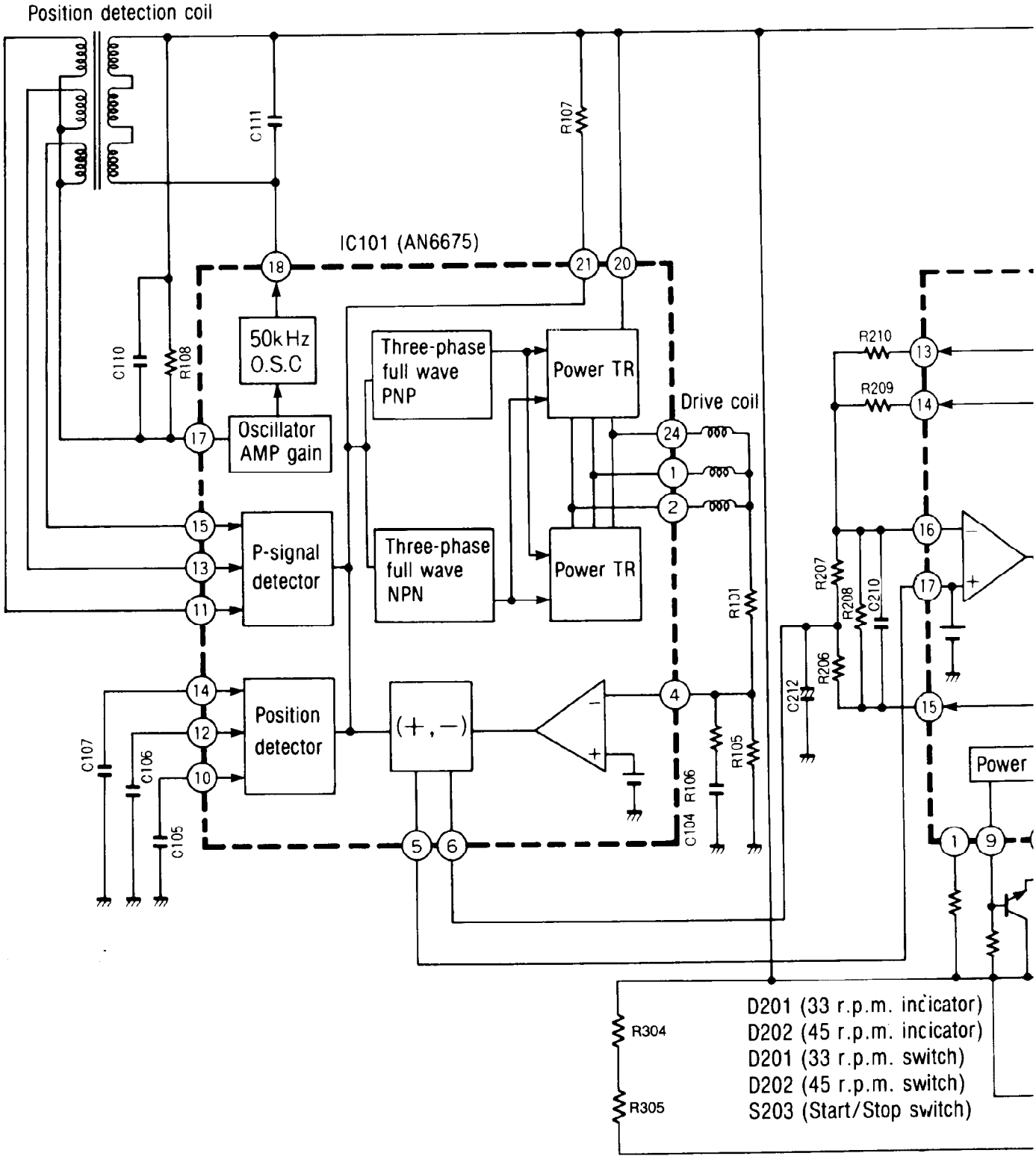
REPLACEMENT PARTS LIST (Electrical)

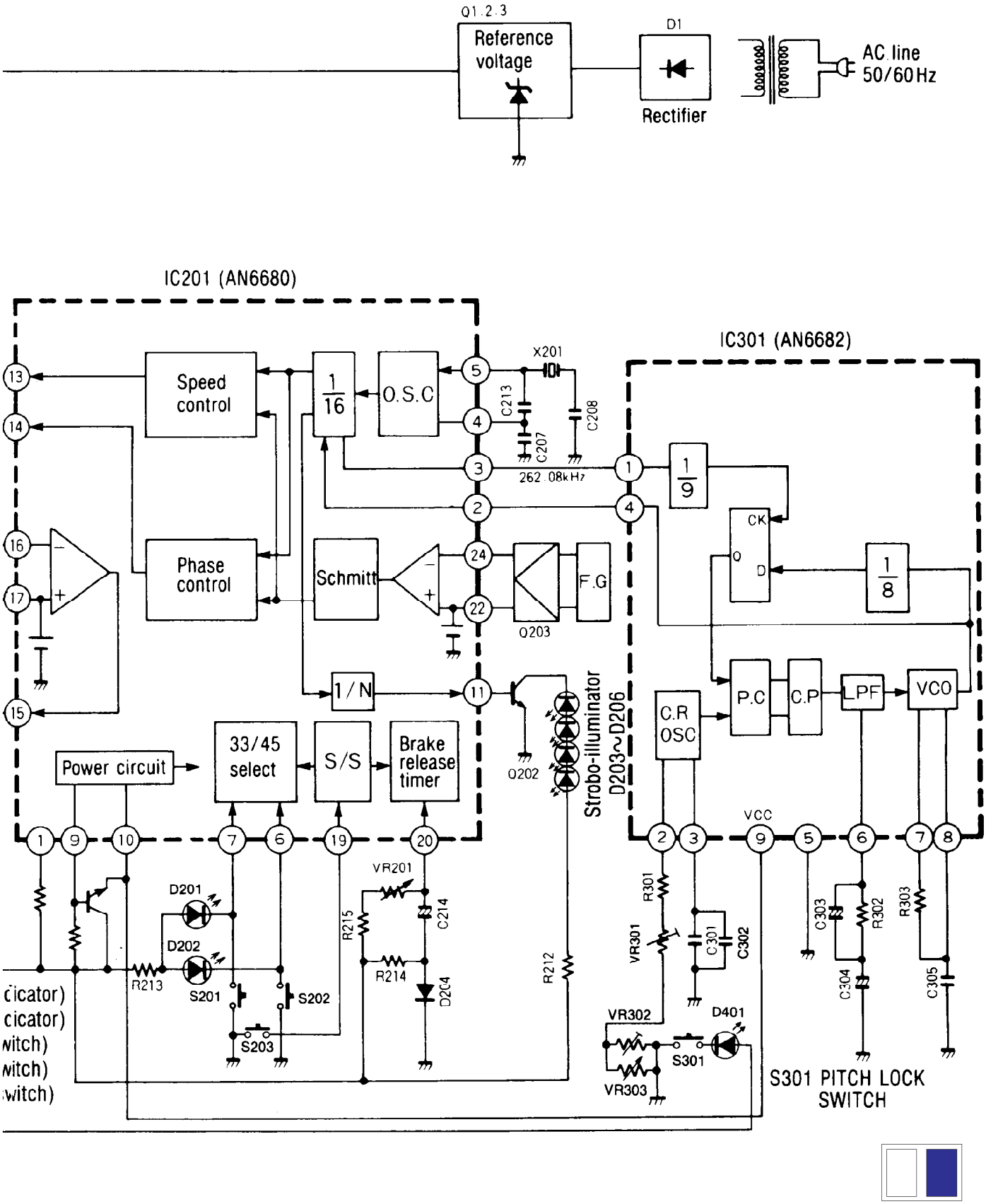
Notes: 1. Part numbers are indicated on most mechanical parts.
Please use this number for parts orders.
2. ⚠ indicates that only parts specified by manufacturer be used for safety.
3. SL-1200MK2 (XG) → [XG], SL-1200MK2 (XA) → [XA], SL-1200MK2 (XGB) → [XGB]
SL-1200MK2 (XAL) → [XAL], SL-1200MK2 (E) → [E]

Ref. No.		Part No.	Part Name & Description
INTEGRATED CIRCUITS			
IC101		AN6675	Integrated Circuit
IC201		AN6680	Integrated Circuit
IC301		AN6682	Integrated Circuit
IC302		SVITC4011BP	Integrated Circuit
TRANSISTORS			
Q1		2SD389A-Q	Transistor
Q2, 3, 202		2SD637	Transistor
Q201		2SC1846-R	Transistor
Q203		2SC1328-T	Transistor
DIODES			
D1	⚠	**SVDS1RBA40**	Rectifier
D2, 301		**MA1051**	Diode, Zener 5.1V
D204		**MA162A**	Diode
D201, 202		SVDSR-105C	Light Emitting Diode
D203~206		SVDEBR5505S	Light Emitting Diode
D401		SVDGL-9PG2	Light Emitting Diode
CRYSTAL			
X201		SVQU306115	Crystal, 4.19328MHz Oscillator
VARIABLE RESISTORS			
VR201		EVLS3AA00B54	Braking Adjustment (BRAKE), 50kΩ (B)
VR301		EVMH1GA00B23	Adjustment of Pitch Control ±0%(PITCH), 5kΩ (B)
VR302		EVLS6AA00B54	Pitch Adjustment (Gain) 50kΩ
VR303		EVBJ05C19ABE	Pitch Control Volume
SWITCHES			
S201		EVQP5R04K	Switch, Speed Selector (33-1/3 r.p.m.)
S202		EVQP5R04K	Switch, Speed Selector (45 r.p.m.)
S203		SFDSSS5GL13C	Switch, Start/Stop
S401		SFDSD2MSL-4	Switch, Stylus-illuminator
S601	⚠	SFDSSS5GL13S	Switch, Power
S602	⚠	SFDSHXW01317	Switch, Power Source
LAMP			
PL1		SFDN122-01	Lamp, Stylus-illuminator
TRANSFORMER			
T1	⚠	SLTF5900	Power Transformer
FUSE			
F1	⚠	XBA2C025TIA	Fuse, T250 mA
F2	⚠	XBA2C10TRO	Fuse, T1A
RESISTORS			
R1		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R2		**ERD25FJ682**	Carbon, 6.8kΩ, 1/4W, ± 5%
R3		**ERD25FJ272**	Carbon, 2.7kΩ, 1/4W, ± 5%
R4		**ERD25FJ561**	Carbon, 560Ω, 1/4W, ± 5%
R5		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ± 5%
R101		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R102	⚠	ERX1ANJ4R7	Metal Film, 4.7Ω, 1W, ± 5%
R103		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R104		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ± 5%
R105		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R106		**ERD25FJ150**	Carbon, 15Ω, 1/4W, ± 5%

Ref. No.		Part No.	Part Name & Description
R107	⚠	ERX1ANJ1R5	Metal Film, 1.5Ω, 1W, ± 5%
R108		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R109, 110	⚠	ERX1ANJ4R7	Metal Film, 4.7Ω, 1W, ± 5%
R201	⚠	ERG1ANJ561	Metal Oxide, 560Ω, 1W, ± 5%
R202		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R203		**ERD25FJ470**	Carbon, 47Ω, 1/4W, ± 5%
R204		**ERD25FJ272**	Carbon, 2.7kΩ, 1/4W, ± 5%
R205		**ERD25TJ124**	Carbon, 120kΩ, 1/4W, ± 5%
R206		**ERD25TJ183**	Carbon, 18kΩ, 1/4W, ± 5%
R207		**ERD25TJ563**	Carbon, 56kΩ, 1/4W, ± 5%
R208		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R209		**ERD25TJ154**	Carbon, 150kΩ, 1/4W, ± 5%
R210		**ERD25TJ183**	Carbon, 18kΩ, 1/4W, ± 5%
R211		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ± 5%
R212		**ERD25FJ121**	Carbon, 120Ω, 1/4W, ± 5%
R213		**ERD25FJ122**	Carbon, 1.2kΩ, 1/4W, ± 5%
R214		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R215		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R216		**ERD25TJ154**	Carbon, 150kΩ, 1/4W, ± 5%
R217		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R218		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R219		**ERD25FJ332**	Carbon, 3.3kΩ, 1/4W, ± 5%
R220		**ERD25FJ221**	Carbon, 220Ω, 1/4W, ± 5%
R221		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ± 5%
R301		ERQ25CKF3301	Metal Film, 3.3kΩ, 1/4W, ± 1%
R302		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ± 5%
R303		**ERD25FJ822**	Carbon, 8.2kΩ, 1/4W, ± 5%
R304		**ERD25FJ152**	Carbon, 1.5kΩ, 1/4W, ± 5%
R306		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ± 5%
R601		**ERD25FJ4R7**	Carbon, 4.7Ω, 1/4W, ± 5%
CAPACITORS			
C1		**ECEB1HS471**	Electrolytic, 470μF, 50V
C2		**ECEA1VS330**	Electrolytic, 33μF, 35V
C3		**ECEA1ES220**	Electrolytic, 22μF, 25V
C101, 102		**ECEA1VS330**	Electrolytic, 33μF, 35V
C103		**ECEA1VS330**	Electrolytic, 33μF, 35V
C104, 105		ECQM1H104KZ	Polyester, 0.1μF, 50V, ±10%
C106, 107		ECQM1H104KZ	Polyester, 0.1μF, 50V, ±10%
C108		**ECEA1ES101**	Electrolytic, 100μF, 25V
C109, 110		ECQM1H104KZ	Polyester, 0.1μF, 50V, ±10%
C111		ECQM1H562KZ	Polyester, 0.0056μF, 50V, ±10%
C112		**ECEA1JS4R7**	Electrolytic, 4.7μF, 63V
C201		**ECEA1CS330**	Electrolytic, 33μF, 16V
C202, 203		**ECEA50Z1**	Electrolytic, 1μF, 50V
C204		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C205		**ECEA1AS221**	Electrolytic, 220μF, 10V
C206		**ECEA50Z1**	Electrolytic, 1μF, 50V
C207		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C208		ECCD1H390K	Ceramic, 39pF, 50V, ±10%
C209		**ECEA1ES101**	Electrolytic, 100μF, 16V
C210		ECQM1H224KZ	Polyester, 0.22μF, 50V, ±10%
C211		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C212		**ECEA50Z3R3**	Electrolytic, 3.3μF, 50V
C213		ECCD1H471K	Ceramic, 470pF, 50V, ±10%
C214		**ECEA1ES101**	Electrolytic, 100μF, 25V
C215		**ECEA50Z1**	Electrolytic, 1μF, 50V
C216		**ECEA1ES470**	Electrolytic, 47μF, 25V
C301, 302	⚠	ECQK1123FZ	Polyester, 0.012μF, 125V, ± 1%
C303		**ECEA50Z1**	Electrolytic, 1μF, 50V
C304		**ECEA1HS100**	Electrolytic, 10μF, 50V
C305		ECQM1H122KZ	Polyester, 0.0012μF, 50V, ±10%
C306		**ECEA50Z1**	Electrolytic, 1μF, 50V
C601		ECNC4A473M	Paper, 0.047μF, 400V, ±20%

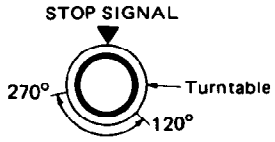
BLOCK DIAGRAM




Q1.2.3
Reference voltage
D1
Rectifier
AC line 50/60Hz
IC201 (AN6680)
IC301 (AN6682)
Speed control
Phase control
1/16
O.S.C
X201
C213
C207
C208
262.08kHz
1/9
1/8
CK
D
Q
Schmitt
F.G
Q203
1/N
Q202
Strobo-illuminator D203~D206
C.R OSC
P.C
C.P
LPF
VCO
VCC
Power circuit
33/45 select
S/S
Brake release timer
VR201
D201
D202
R213
S201
S202
S203
R215
R214
C214
D204
R212
R301
VR301
C301
C302
VR302
VR303
D401
S301
S301 PITCH LOCK SWITCH
C303
R302
C304
R303
C305
cicator)
cicator)
witch)
witch)
witch)

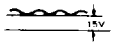
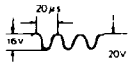
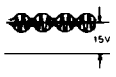
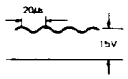
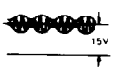
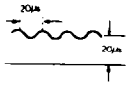
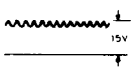
ADJUSTMENT (Electrical)

Notes: ● Make the following adjustments after replacing parts such as IC's, transistors, diodes, etc.
- ● Condition of the set.
  1. Power switch ..... ON
  2. Pitch control ..... Center position
  3. Speed selector switch ..... 33-1/3 r.p.m.
- ● Instruments to be used
  1. Tester
  2. Frequency counter

	Adjustment	Connection Points	Adjustment Point	Adjustment Method
A	Adjustment of pitch control ±0% (PITCH)	Frequency counter ⊕ — TP27 ⊖ — GROUND	VR301	1. Pitch control switch to center position. 2. Adjust VR301 for 262.08 kHz ±0.05 kHz of frequency.
B	Adjustment of pitch control gain	Tester TP31 and TP32	VR302	Adjust VR302 for 2.7 kΩ ±0.1 of resistance value
C	Braking adjustment (BRAKE)	–	VR201	Adjust VR201 for complete stop within 120° ~ 270° after stop signal initiated. (Turntable becomes free a few seconds after stop) 

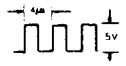
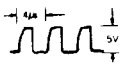
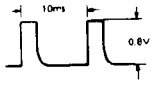
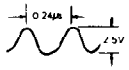
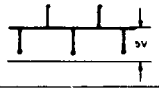
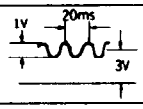
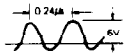
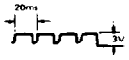
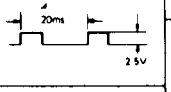
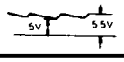
REFERENCE VOLTAGE AND WAVEFORM AT EACH IC PIN

IC101 (AN6675)

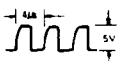
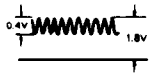
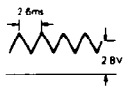
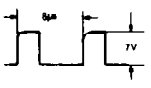
	Start	Stop		Start	Stop		Start	Stop
①	2V	2V	⑫		15V	⑱	Same as at right	
②	2V	2V						
③	0V	0V						
④	5V	5V	⑬					
⑤	5V	5V				⑲	20V	20V
⑥	5V	6.6V				⑳	20V	20V
⑦	0V	0V	⑭	15V	15V	㉑	20V	20V
⑧	5V	5V	⑮			㉒	0.2V	0.2V
⑨	0V	0V				㉓	20V	20V
⑩		15V				㉔	1.7V	1.7V
			⑯	0V	0V			
⑪			⑰	15V	15V			

SL-1200MK2

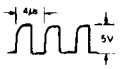
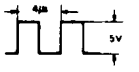
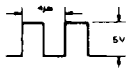
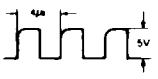
IC201 (AN6680)

	Start	Stop		Start	Stop		Start	Stop
①	2.5V	2.5V	⑧	0V	0V	⑯	5V	2.5V
②	Same as at right		⑨	9.8V	9.8V	⑰	5V	5V
			⑩	10V	10V	⑱	0V	0V
③	Same as at right		⑪	Same as at right		⑲	7.5V	0V
						⑳	0V	5V
						㉑	1.5V	0V
④	Same as at right		⑫	0V	0V	㉒	3V	3V
			⑬		0.2V	㉓		3V
⑤	Same as at right		⑭			㉔	2.8V	2.8V
⑥	3.4V	3.4V	⑮		8V			
⑦	0V	0V						

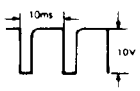
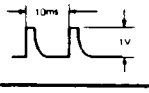
IC301 (AN6682)

	Start	Stop		Start	Stop		Start	Stop
①	Same as at right		④	Same as at right		⑧	Same as at right	
②	Same as at right		⑤	0V	0V	⑨	9V	9V
			⑥	3.9V	3.9V			
③	Same as at right		⑦	Same as at right				

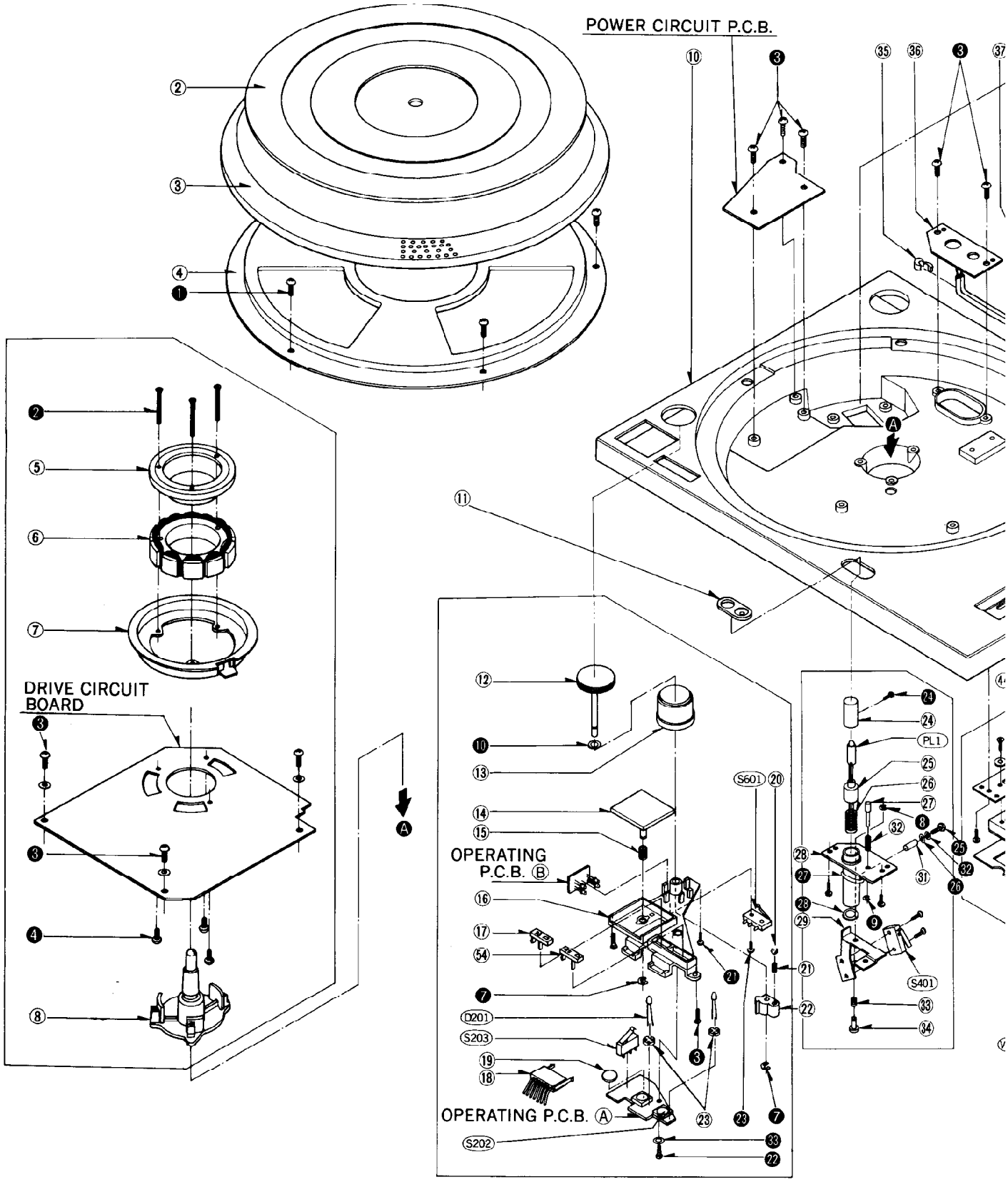
IC302 (SVITC4011BP)

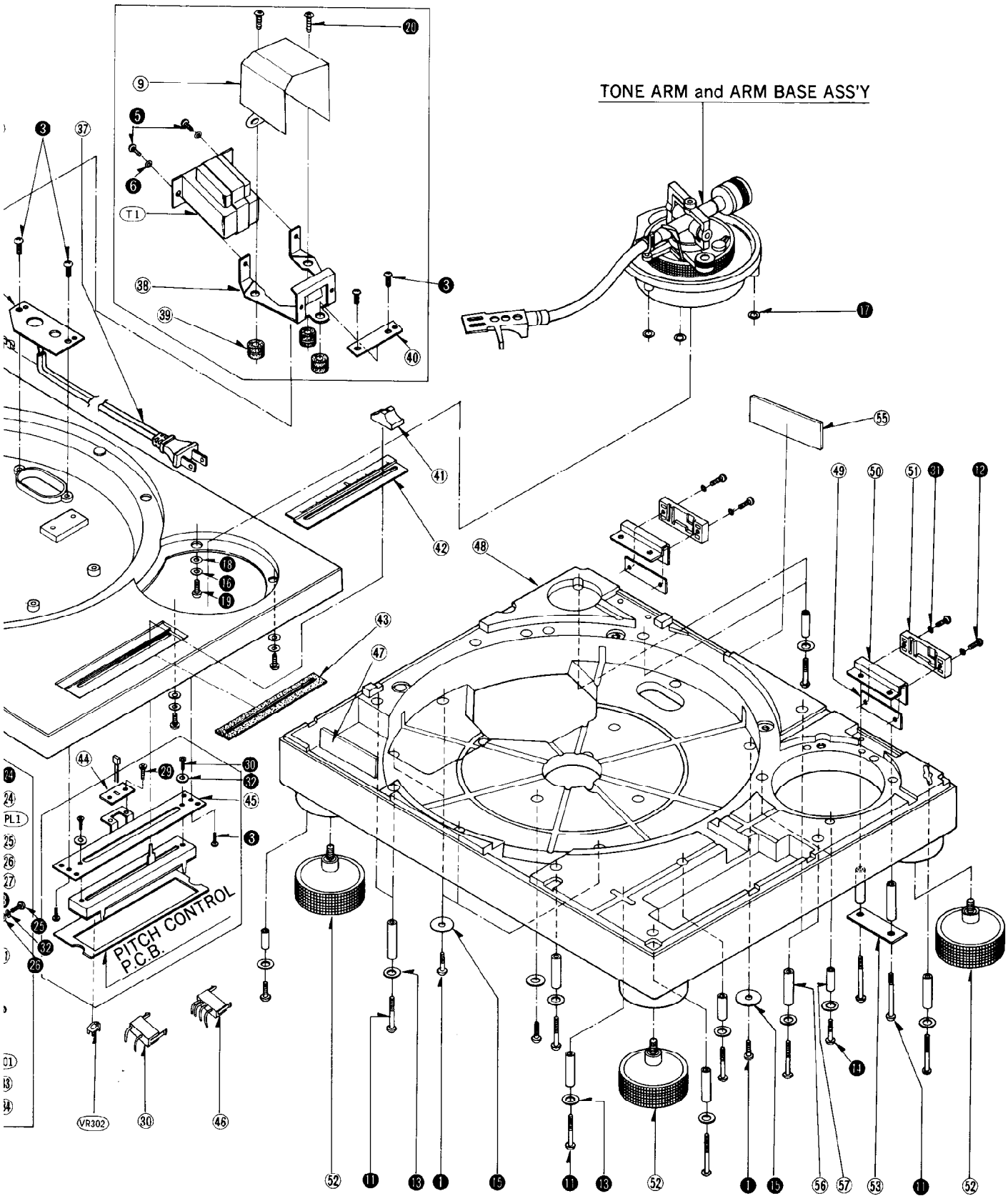
	Start	Stop		Start	Stop		Start	Stop
①	Same as at right		⑤	Same as at right		⑨	5V	5V
						⑩	5V	5V
						⑪	5V	5V
②	5V	5V	⑥	5V	5V	⑫	0.6V	0.6V
③	Same as at right		⑦	0V	0V	⑬	0.6V	0.6V
			⑧	Same as at right		⑭	5V	5V
④	5V	5V						

Q202 (2SD637)

	Start	Stop
E	0V	0V
C	Same as at right	
B	Same as at right	

■ EXPLODED VIEWS




TONE ARM and ARM BASE ASS'Y
PITCH CONTROL P.C.B.
VR302

■ REPLACEMENT PARTS LIST (Mechanical)

Notes: 1. Part numbers are indicated on most mechanical parts.
Please use this number for parts orders.
2. ⚠ indicates that only parts specified by manufacturer be used for safety.
3. SL-1200MK2 (XG) ⟶ [XG], SL-1200MK2 (XA) ⟶ [XA], SL-1200MK2(XGB) ⟶ [XGB]
SL-1200MK2 (XAL) ⟶ [XAL], SL-1200MK2 (E) ⟶ [E]

Ref. No.		Part No.	Part Name & Description
CABINET and CHASSIS PARTS			
1		SFAD122-01A	Dust Cover
2		SFTG172-01	Turntable Mat
3		SFTE172-01Z	Turntable
4		SFUM172-05	Cover, Turntable
5		SFMGQ20-01	Cover, Stater Frame Ass'y
6		SFMG520-31A	Stater Frame
7		SFMZ172-01E	FG Detector Coil Ass'y
8		SFMZQ20-01A	Shaft, Stater Frame Ass'y
9		SFUP122-12	Plate, Shield
10		SFAC122-01	Cabinet
11		SFUM172-04	Ornament, Stylus-illuminator
12		SFKT122-01	Knob, Power Switch
13		SFKK122-01E	Case, Strobe-illuminator
14		SFKT015-06	Knob, Start/Stop Switch
15		SFQA122-01	Spring, Start/Stop Knob
16		SFUM122-01	Base, Operation
17		SFKT015-01E	Knob, Speed Selector (33 1/3 r.p.m.)
18		SFDJ122-02E	Connector, 7-PIN
19		SFGZ122-01	Spacer, Rubber (Speed Selector)
20		SFYB5-32	Ball, Switch Cam
21		SFQA520-01	Spring, Switch Cam
22		SFUM122-03	Cam, Switch
23		SFUM015-11	Spacer, LED
24		SFKK172-01	Cover, Lamp
25		SFXB122-02	Boss, Drive
26		SFQA172-01	Spring, Drive Boss
27		SFXJ172-01	Pin, Lock Canceler
28		SFUP122-02E	Bracket, Stylus-illuminator
29		SFUP122-03	Plate, Lock OPeration
30		SFDJ122-03E	Connector, 3-PIN
31		SFXO172-01	Pin, Guide
32		SFQA520-01	Spring, Lock Canceler Pin
33		SFQA001-02	Spring, Lock Operating Plate M'tg
34		SFXJ172-05	Pin, Lock Operating Plate M'tg
35 except [XAL]		SFSR4N4	Clamper, AC Cord
35 [XAL] only		SFHK040L	Clamper, AC Cord
36 except [XAL]		SFUP025X01	Bracket, AC Cord
36 [XAL] only		SFUP025-01	Bracket, AC Cord
37 except [XAL]	⚠	RJA23ZC	AC Cord
37 [XAL] only	⚠	QFC1208M	AC, Cord
38		SFUP132-03	Bracket, Power Transformer
39		SFGC122-01	Cushion, Power Transformer
40		SFUP122-10	Spacer, Power Transformer
41		SFKT122-02	Knob, Pitch Control Volume
42		SFKK122-03	Ornament, Pitch Control Volume
43		SFUZ122-01	Shading Cloth, Pitch Control Volume
44		SFUP122-09	Holder, LED
45		SFUP122-01	Bracket, Pitch Control Volume
46		SFDJ122-01E	Connector, 4-PIN
47		SFUP122-13	Supporter, Bottom Base
48		SFAU122-01	Base, Bottom
49		SFUP122-05	Supporter (A), Hinge
50		SFUP122-04	Supporter (B), Hinge
51		SFUM170-07	Case, Hinge
52		SFGC122-02E	Audio Insulator
53		SFUP122-06	Supporter (C), Hinge
54		SFKT015-02E	Knob, Speed Selector (45 r.p.m)
55 [XG, XA, XGB]		SFNN122N01	Name Plate
55 [XAL]		SFNN122L01	Name Plate
55 [E]		SFNN122S01	Instruction Book
56		SFXO122-01	Pipe (A)
57		SFXO122-02	Pipe (B)
58		SFAT122-01A	Hinge Ass'y
TONE ARM and ARM BASE			
61		SFPCC31001K	Head Shell
62		SFPAM18201K	Tone Arm Ass'y
63		SFPWG17201K	Balance Weight Ass'y
64		SFPRT18201K	Lift Ass'y
65		SFPZB17202	Knob, Arm Base Lock
66		SFQA829-03	Spring, Lift Ass'y
67		SFPAB13202	Knob, Arm Lift
68		SFPJL18202K	Oil Damper
70		SFPZB12203	Plate, Arm Base Cover
71		SFUM170-06	Spacer, Phono Cord
72		SFPZB12204	Clamper, Phono Cord
73		SFPAB18201K	Tone Arm Fixing Plate Ass'y

Ref. No.		Part No.	Part Name & Description
74		SFPZB12201K	Plate, Position Fix
75		SFDH028-01	Phono Cord
76		SFEL028-01E	Ground Wire
77		SFPRT17201K	Arm Rest
78		SFPKD17203	Arm Base
79		SFPKB17201S	Ring, Arm Base Operation
80		SFPKD12201	Bracket, Arm Base
81		SFPAB17206	Knob, Anti-skate Force Control
82		SFGK132-01	Cap, Rubber
SCREWS, WASHERS and CIRCLIPS			
●		**XTN3+8BFZ**	Screw
●		SFXGQ20-02	Screw
●		**XTN3+8B**	Screw
●		**XTN26+6B**	Screw
●		**XTN4+10B**	Screw
●		**XWA4B**	Washer
●		**XUC3FT**	Circlip
●		**XUC2FT**	Circlip
●		**XUC25FT**	Circlip
●		SFXW910J02	Washer
●		**XTN3+40BFZ**	Screw
●		**XSN3+10BVS**	Screw
●		XWE3F12FZ	Washer
●		**XTN3+25BFZ**	Screw
●		SFXW122-01	Washer
●		**XWE3E10**	Washer
●		SFPEW1100	Washer
●		SFPEW11003	Washer
●		**XSN3+8S**	Screw
●		SFXG132-01	Screw
●		**XTV3+8BFN**	Screw
●		**XTN3+10B**	Screw
●		**XTN2+10B**	Screw
●		XSN17+3FY	Screw
●		**XSN3+14S**	Screw
●		SFXW172-04	Washer
●		XUB14FT	Circlip
●		SFUZ172-05	O Ring
●		**XTN3+6B**	Screw
●		**XSN3+6S**	Screw
●		**XWA3BFZ**	Washer
●		**XWA3B**	Washer
●		**XWG3**	Washer
●		SFXG829-1	Screw
●		**XUC5FT**	Circlip
●		**XTW3+6B**	Screw
●		**XTV3+6BFN**	Screw
●		**XWE4A10EW**	Washer
●		**XTN3+25B**	Screw
●		XYN3+C6FZS	Screw
●		**XSN3+12BVS**	Screw
●		SFPEW17201	Washer
●		XWG26	Washer
ACCESSORIES			
A1 except [E]		SFNU122X01	Instruction Book
A1 [E] only		SFNU122S01	Instruction Book
A2		SFWE010	Adaptor, 45 r.p.m.
A3		SFPEN3302	Nut, Cartridge
A4		SFPEW9601	Washer, Cartridge
A5		SFCZV8801	Screw, Cartridge
A6		SFPEV9801	Screw, Cartridge
A7		SFKO135-01	Overhang Gauge
A8		SFPZB3501	Shell Weight
A9 [XA] only		SFDK119118	Plug, 2-PIN
PACKINGS			
P1		SFHP122M01	Carton
P2		SFHH122-01	Pad, Front
P3		SFHH122-02	Pad, Rear
P4		SFHD122-01	Pad, Top
P5		SFHD122-02	Pad, (A), Turntable
P6		SFHD122-03	Pad, (B), Turntable
P7		SFYH60X60	Polyethylene Cover, Turntable Unit and Dust Cover
P8		SFYH40X45	Polyehtylene Cover, Turntable

■ EXPLODED VIEWS